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## PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>PX1632-PCT</b>	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/KR 2003/001418</b>	International filing date (day/month/year) <b>18 July 2003 (18.07.2003)</b>	Priority Date (day/month/year) <b>23 July 2002 (23.07.2002)</b>
International Patent Classification (IPC) or national classification and IPC <b>IPC<sup>7</sup>: C08F 2/22; C08F 2/24; C08F 265/06</b>		
Applicant <b>KOLON INDUSTRIES INC.</b>		

- This international preliminary examination report has been prepared by this International Preliminary Examination Authority and is transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 4 sheets, including this cover sheet.  
☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of \_\_\_\_\_ sheets.

- This report contains indications relating to the following items:

- I. ☒ Basis of the opinion
- II. ☐ Priority
- III. ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV. ☐ Lack of unity of invention
- V. ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI. ☐ Certain documents cited
- VII. ☐ Certain defects in the international application
- VIII. ☐ Certain observations on the international application

Date of submission of the demand <b>28.10.2003</b>	Date of completion of this report <b>5 November 2004 (05.11.2004)</b>
Name and mailing address of the IPEA/AT Austrian Patent Office Dresdner Straße 87 A-1200 Vienna Facsimile No. 1/53424/200	Authorized officer <b>BAUMSCHABL F.</b> Telephone No. 1/53424/459

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR 2003/001418

**I. Basis of the report****1. With regard to the elements of the international application:\***☒ the international application as originally filed☐ the description:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the claims:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, as amended (together with any statement) under Article 19

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the drawings:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the sequence listing part of the description:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

**2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.**

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).**3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:**☐ contained in the international application in printed form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.**4. ☐ The amendments have resulted in the cancellation of:**☐ the description, pages \_\_\_\_\_.☐ the claims, Nos. \_\_\_\_\_.☐ the drawings, sheets/fig \_\_\_\_\_.**5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\***

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as „originally filed“ and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement	Novelty (N)	Claims 1 - 14	YES
		Claims ----	NO
	Inventive step (IS)	Claims ----	YES
		Claims 1 - 14	NO
	Industrial applicability (IA)	Claims 1 - 14	YES
		Claims ----	NO

### Citations and explanations (Rule 70.7)

US 5668209 A relates to plastisol compositions containing styrene and acrylic acid produced by emulsion polymerisation. Column 3, line 3 – column 4, line 60 and example 1 give additional information (primary and secondary particle size, emulsifiers, additives) to the production of plastisol compositions in motor vehicle construction.

US 4210567 A relates to plastisol compositions based on acrylate monomers. The figures show limits in the production of plastisols and relationships between particle size and glass transition temperature of the used polymers. Column 5, lines 33 – 61 enumerates different fillers and additives. Also viscosity properties (column 3, lines 54ff) are discussed.

US 4199486 A describes storage-stable plastisols comprising copolymers of methyl methacrylate. Plastisols are suitable for spraying or dipping. For preparation of the plastisol, the powdered material, optionally together with a filler (column 5, lines 20 – 24), the polymer is mixed with a liquid plasticizer.

GB 1516510 A relates to different plastisols containing acrylate polymers and organic plasticisers. Several criteria (page 3, line 1 – page 5, line 59; viscosity index, inert fillers, additives) are discussed.

US 4071653 A discusses how to influence the properties (viscosity, particle size, plasticizers, inert fillers) of plastisols by changing the used components.

None of the cited documents in the search report covers all features of the subject of the present application. Therefore claims 1 – 14 are considered to be new.  
To demonstrate that the subject matter of the present application according to claims 1 – 14 does not involve an inventive step especially US 5668209 A, US 4210567 A, US 4199486 A, GB 1516510 A and US 4071653 A have been part of the search report. By combining the state of the art of the subject matter of US 5668209 A with the state of the art of the subject matter of US 4210567 A and with the state of the art of the subject

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**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Box V (page 1)

matter of US 4199486 A a skilled person would get to the subject matter of the present application without any inventive step. But also other combinations of two or three documents would cover all the features of the present application.

Industrial applicability is given.